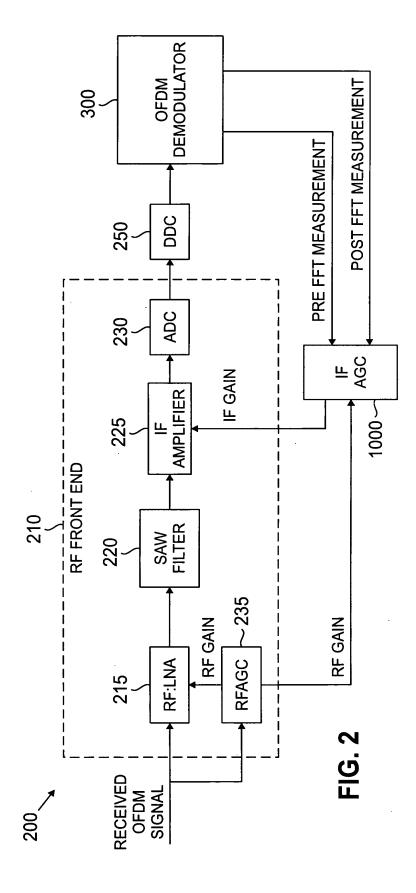
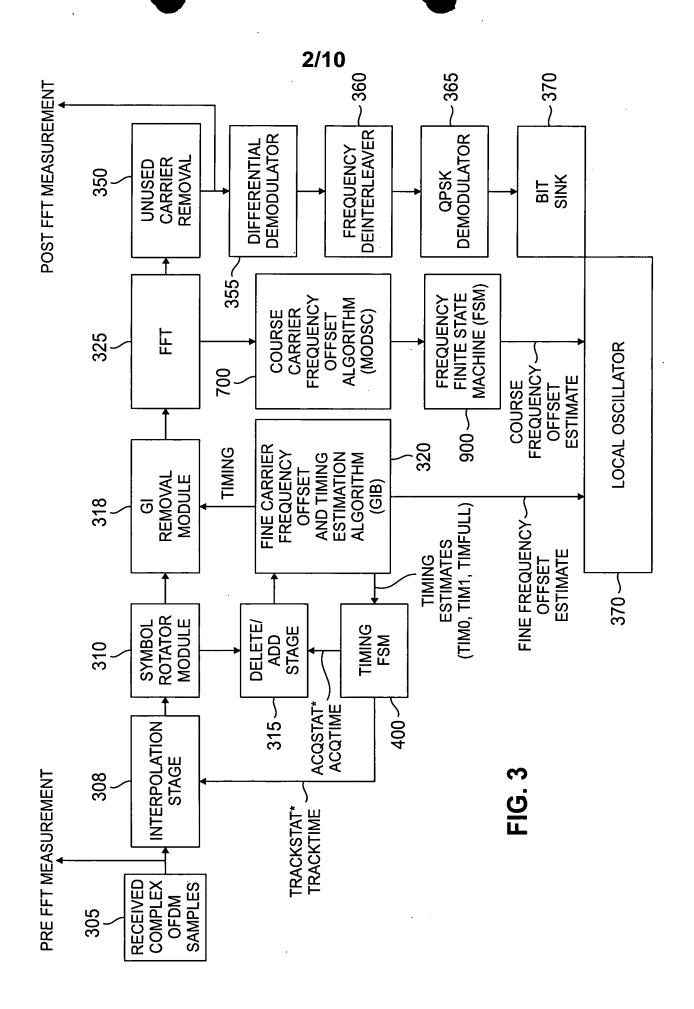


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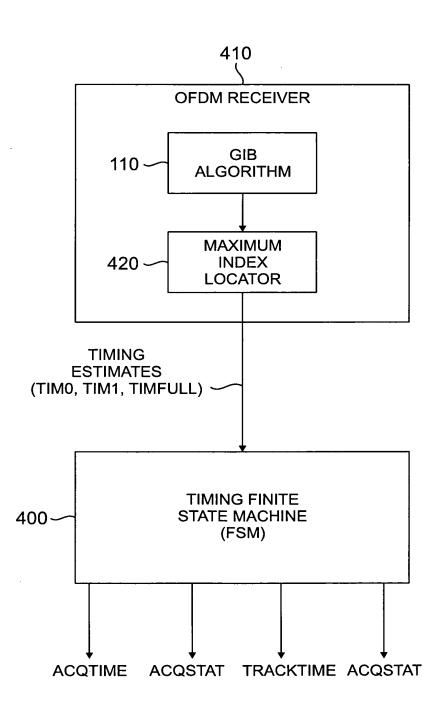
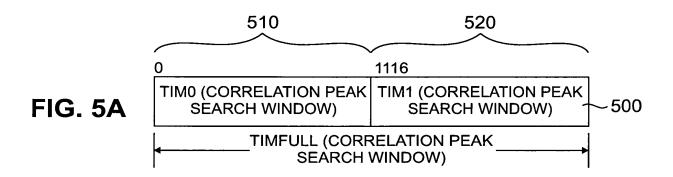
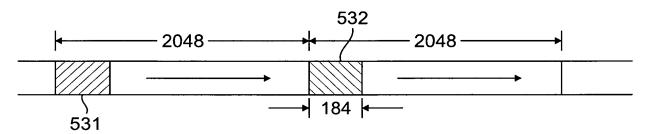


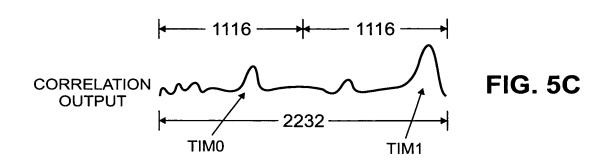
FIG. 4





CORRELATION OF 184 SAMPLES SPACED 2048 SAMPLES APART. THE PROCESS IS REPEATED TO GET 2232 SAMPLE CORRELATION OUTPUT AS SHOWN BELOW.

FIG. 5B



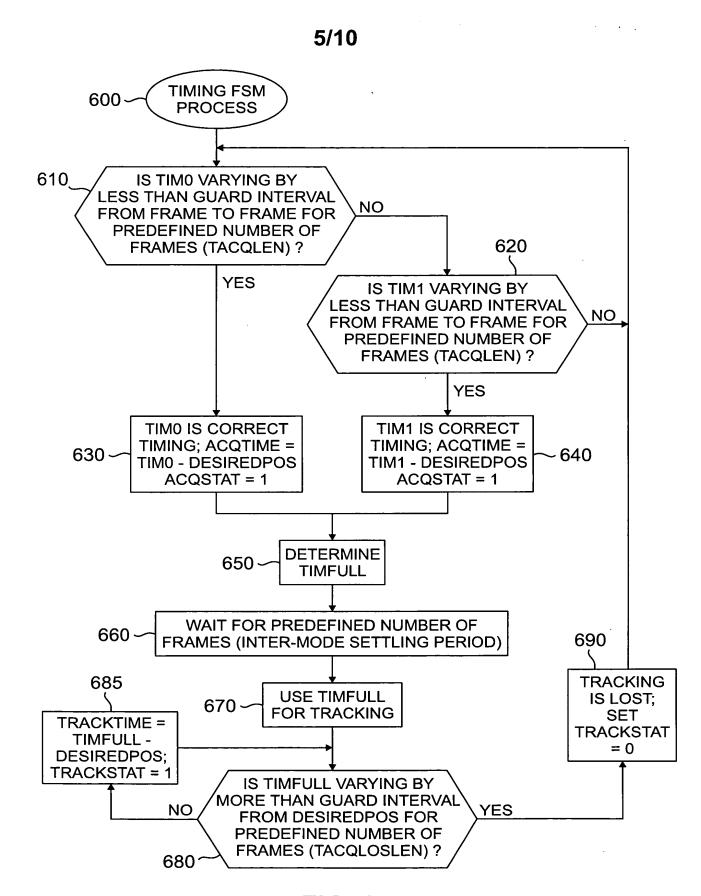
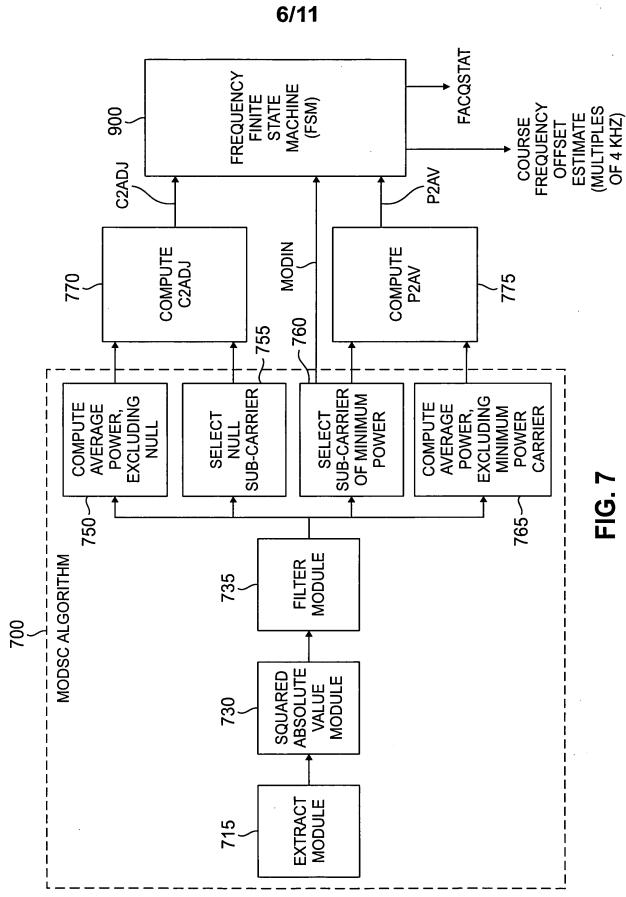


FIG. 6



**FIG. 7** 

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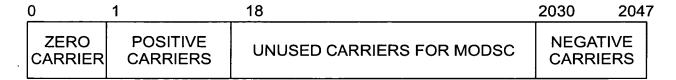
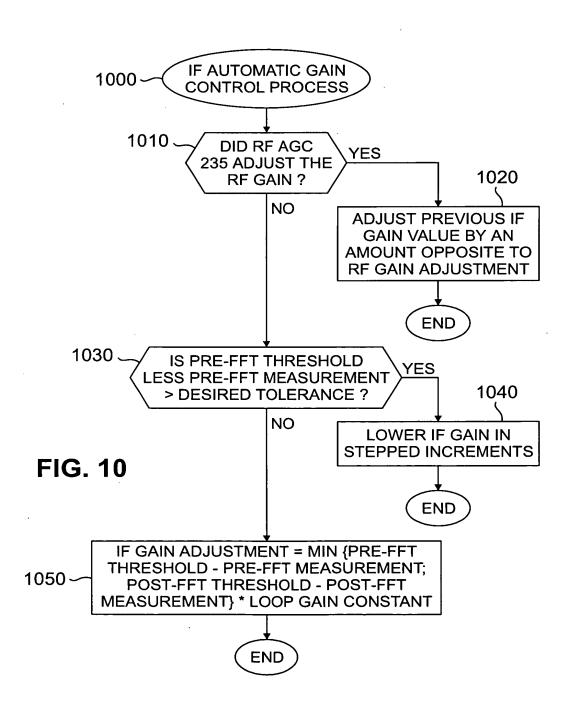
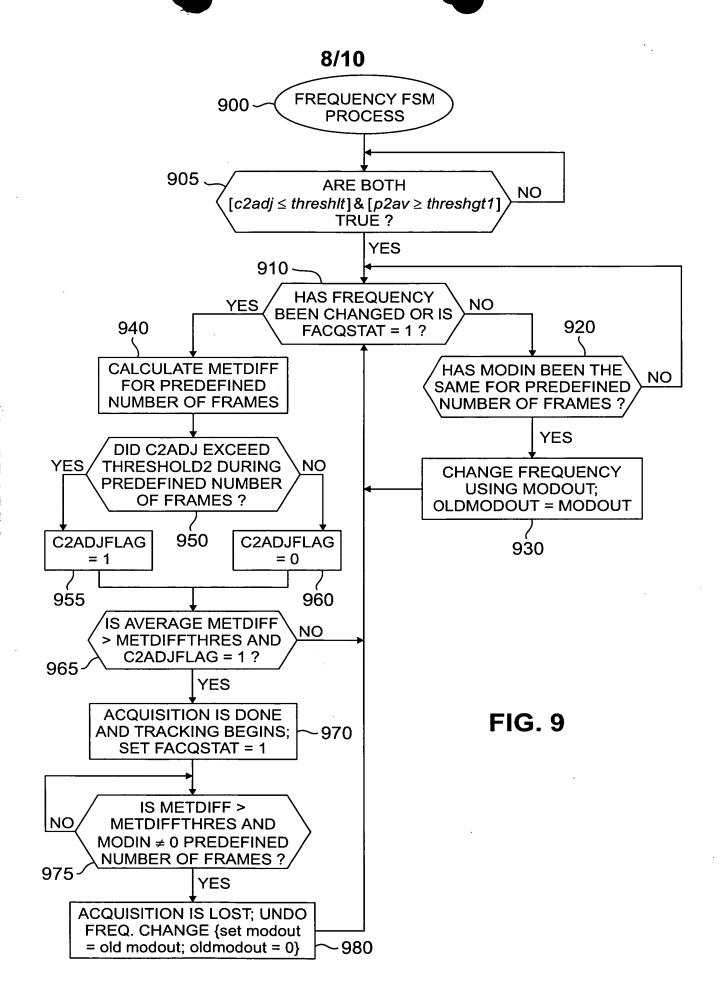


FIG. 8





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```
INPUT PORT(1) register float *Prepower;
INPUT PORT(2) register float *Postpower;
INPUT_PORT(3) register float *RFgain;
OUTPUT PORT(1) register float *Output; /*IF AGC Gain in dB*/
BLOCKFACTOR long BlockFactor;
PARAMETER(1) float OutputIntervalWidth;/*71 dB*/
PARAMETER(2) float SetPointdBPre;
                                        /*42.2*/
PARAMETER(3) float SetPointdBPost;
                                       /*32.2*/
PARAMETER(4) float Kagc;
                             /*0.25*/
PARAMETER(5) float PreDropdB;
                                      /*3.0*/
PARAMETER(6) long WaitTime;
                                      /*8 OFDM Frames!!*/
STATE float oldoutput;
STATE float oldrfgain;
STATE long counter;
#include <math.h>
void init ofdmagccontrol2()
                                        FIG. 11A
/*initialize Sum*/
oldoutput = 0.0;
counter = WaitTime;
void ofdmagccontrol2()
register float dbinpre, dbinpost, err, rfgain, output;
float HalfInterval = (OutputIntervalWidth / 2.0);
```

}

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```
LOOP(BlockFactor)
        printf("-----\n");
       dbinpre = *Prepower++; dbinpost = *Postpower++;
        rfgain = *RFgain++;
        printf("prepower = %f, post = %f, rfgain = %f\n", dbinpre, dbinpost, rfgain);
       if((rfgain - oldrfgain)! = 0.0)
                output = oldoutput - (rfgain - oldrfgain);
                printf("ifgain = -rfdiff = %f, oldrfgain = %f\n", output, oldrfgain);
       else if ((SetPointdBPre-PreDropdB - dbinpre <= 0.0) && (counter >= WaitTime))
                output = oldoutput - (PreDropdB + 2.0);
                printf("ifgain = due to Pre = %f\n", - PreDropdB);
                counter = 0;
       else
                counter++;
                if(SetPointdBPre - dbinpre < SetPointdBPost - dbinpost)</pre>
                         err = SetPointdBPre - dbinpre;
                else
                         err = SetPointdBPost - dbinpost;
                err = Kagc*err;
                output = oldoutput + err;
                printf("output = %f\n", output);
       if(output >= HalfInterval)
                output = HalfInterval;
       else if (output <= -HalfInterval)
                                                      FIG. 11B
                output = -HalfInterval;
       else
                output = output;
       *Output++ = output;
       oldrfgain = rfgain:
       oldoutput = output;
       printf("-----\n"):
ENDLOOP
```